

# **2004 Advanced Aerospace Technologies Course (AATC)**

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**Presented by  
The Computing, Information and  
Communications Technologies (CICT)  
Program**

**Robert Shiner  
CICT Education Outreach  
September 7, 2004**



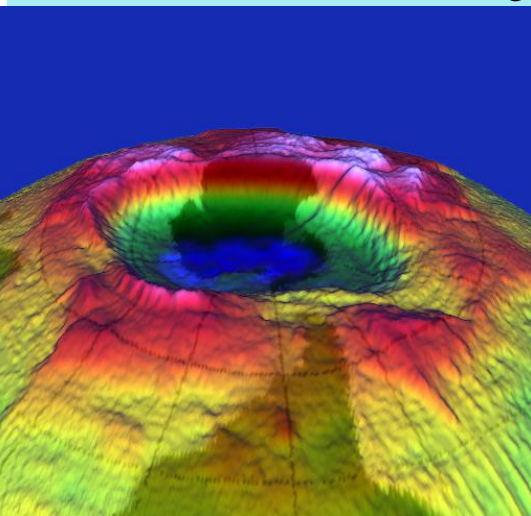
## **CICT Program Goal**

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**Enable NASA's Scientific Research, Space Exploration, and Aerospace Technology Missions**

**with greater mission assurance, for less cost,  
with increased science return**

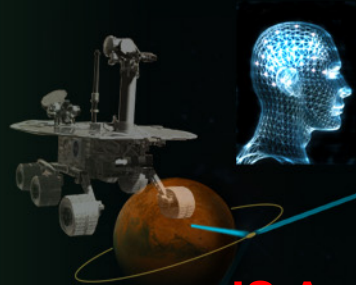
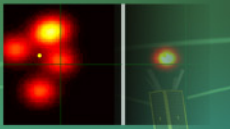
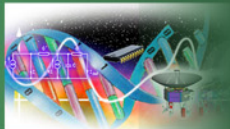
**through the development and use of  
advanced computing, information and  
communications technologies.**



# CICT Program Overview

## Integrated Capability Goal

IT Strategic  
Research

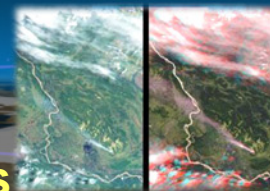
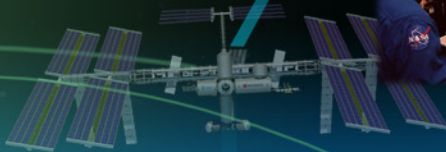


IS Automated Reasoning

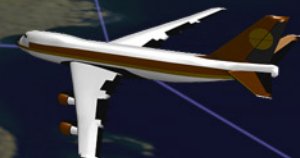
Space Communications



IS Intelligent Data  
Understanding



Computing, Networking and Information Systems



IS Human-Centered Systems



# CICT EDUCATION OUTREACH COURSE

## AATC Course



CICT Program Goal

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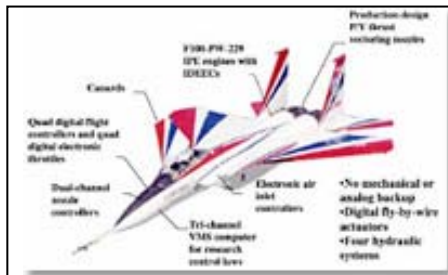
Sept. 7, 2004

### Introduction: Advanced Aerospace Technologies Development at NASA

Management Overview

Robert Shiner

Manager, NASA CICT Education Outreach



Sept. 7, 2004 (Continued)

### SESSION 1: Intelligent Flight Controls (ITSR)

Dr. Gundy-Burlet,

Research Scientist

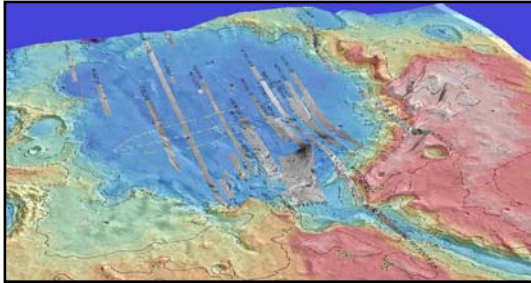
Adaptive Control Technologies Group





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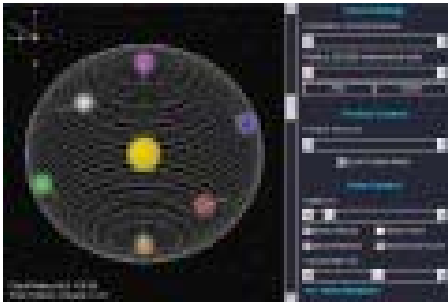


**Sept. 8, 2004**

## **SESSION 2: Selecting Research Locations On Mars** **(CNIS)**

Glenn Deardorff, Contractor, Advanced Management Technologies  
Co-presenter Dr. Virginia C. Gulick, SETI

Includes real time use of Marsoweb Site Database by Students



**Sept. 9, 2004**

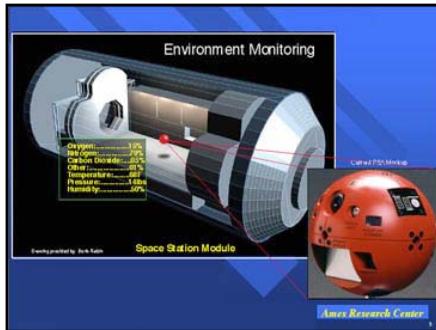
## **SESSION 3: The Inter-planetary Internet** **(SC Grantee)**

Dr. Adam Frank. Associate Professor of Astrophysics, University of Rochester (New York), Co-founder of Truth & Beauty Software



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Sept. 14, 2004

## SESSION 4: Personal Assistants in Space (IS)

Keith E Nicewarner, Research Scientist



Sept. 15, 2004

## SESSION 5: Science Discovery Using Computation And Observation (IS)

Dr. Joseph Coughlan Manager, CICT/IS



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Sept. 16, 2004

**SESSION 6: Generating and Verifying Aerospace Software (ITSR)**

Dr. Bernd Fischer, Co-investigator, USRA RIACS



Sept. 21, 2004

**SESSION 7: Speedlearning Technology and Aerospace Careers (CICT Program MOU)**

Dr. Richard Sutz - Principal Investigator - The Literacy Company



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Sept. 22, 2004

**SESSION 8: Neural Electric Machine Control**

**[Extending Human Senses]**

**IS**

Kevin Wheeler, ARC

**THE FINAL EXAM FOLLOWS THIS SESSION**

**NOTE: This schedule and list of presenters is subject to change based on NASA priority and presenter availability**  
**Please consult the CICT/AATC web page for the most current updates**  
<http://cictedu.arc.nasa.gov/index.html>